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NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

From the INTERNATIONAL BUREAU
To: ITOH, Hidehiko IMY INTERNATIONAL PATENT OFFICE Kyowa Shimanouchi Bldg. 21-19, Shimanouchi 1-chome, Chuo-ku Osaka-shi, Osaka 542-0082 JAPON

Date of mailing (day/month/year) 18 May 2006 (18.05.2006)	
Applicant's or agent's file reference PCT04005	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/008447	International filing date (day/month/year) 16 June 2004 (16.06.2004)
Applicant Y/	AMAUCHI CORPORATION et al

l.	Transmittal of	the translation	to the applicant.
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report or patentability (Chapter I).
parameters (chapter 1).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP, KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Yoshiko Kuwahara

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PATENT COOPERATION TREATY

Translation **PCT**

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant'	s or agent's file reference			
PCT04005		FOR FURTHER ACTION	See Form PCT/IPEA/416	
International application No.		International filing date (day/month/year)	Priority date (day/month/year)	
PCT/	JP2004/008447	16.06.2004	02.07.2003	
Internation	nal Patent Classification (IPC) or na	ational classification and IPC		
F16C	13/00, B29D31/00), D21G1/02		
Applicant YAMAUCHI CORPORATION et al				
		liminary examination report, established by the applicant according to Article 36.	this International Preliminary Examining Authority	
2. 1	This REPORT consists of a total of	6 sheets, incl	luding this cover sheet.	
з. Т	This report is also accompanied by	ANNEXES, comprising:		
, .	a. (sent to the applicant ar	d to the International Bureau) a total of	sheets, as follows:	
	sheets of the description sheets containing	iption, claims and/or drawings which have b	een amended and are the basis for this report and/or the Rule 70.16 and Section 607 of the Administrative	
	Instructions).			
			cated in item 4 of Box No. I and the Supplemental	
,				
b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))				
	containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).			
4. T	This report contains indications rela	ting to the following items:		
	Box No. I Basis of the	ne report		
	Box No. II Priority			
[Box No. III Non-estab	lishment of opinion with regard to novelty, in	nventive step and industrial applicability	
	Box No. IV Lack of us	nity of invention		
		statement under Article 35(2) with regard to nd explanations supporting such statement	novelty, inventive step or industrial applicability;	
	Box No. VI Certain do	ocuments cited		
	Box No. VII Certain de	fects in the international application		
	Box No. VIII Certain ob	servations on the international application		
Date of submission of the demand Date of completion of this report				
01 541	or the delimite	Date of completion	or this report	
Name and	mailing address of the IPEA/JP	Authorized officer		
	<u> </u>	January States		
Facsimile ?	No.	Telephone No.		

International application No.
PCT/JP2004/008447

Box	No. I	_	Basis of the report		
l.			to the language, this report is based on the internation der this item.	nal application in the language in which	it was filed, unless otherwise
			eport is based on translations from the original language is the language of a translation furnished for the purp		
		\sqcup	international search (Rule 12.3 and 23.1(b))		
		닏	publication of the international application (Rule 12.4)		
		Ш	international preliminary examination (Rule 55.2 and/	or 55.3)	
2.	2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed this report):				
	\boxtimes	the int	ternational application as originally filed/furnished		
		the de	scription:		
		pages			as originallÿ filed/furnished
		pages			
		pages	*	received by this Authority on	
		the cla	aims:		
		nos.			as originally filed/furnished
		nos.*			_ ,
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	Ш		awings:		
		sheets			as originally filed/furnished
		sheets			
	\Box	sheets	*	received by this Authority on	·
		a sequ	nence listing and/or any related table(s) – see Suppleme	ental Box Relating to Sequence Listing.	
3.	Ш	The ar	mendments have resulted in the cancellation of:		
		\sqcup	the description, pages		
		\sqcup	the claims, nos.		
			the drawings, sheets/figs		
			the sequence listing (specify):		
			any table(s) related to sequence listing (specify):		
4.			eport has been established as if (some of) the amenda ave been considered to go beyond the disclosure as file		
			the description, pages		
			the claims, nos.		
			the drawings, sheets/figs	•	
			any table(s) related to sequence listing (specify):		
*	If ite		olies, some or all of those sheets may be marked "supe		

PCT/JP2004/008447

Box			ticle 35(2) with regard to novelty, inventive step or industrial applicability; porting such statement	
1.	Statement			
	Novelty (N)	Claims	1-13	_ YES
		Claims		_ мо
	Inventive step (IS)	· Claims		_ YES
		Claims	1-13	NO
	Industrial applicabil	ity (IA) Claims	1-13	YES
				_
2.	Citations and explanation	ons (Rule 70.7)		
	Document 1:		092 A (Yamauchi Kabushiki Kaisha),	
			er 1989, entire text	
	Document 2:		6912 A (Yamauchi Gomu Kogyo	
	200amene 2.		i Kaisha), 10 September 1982, page	
			left column, line 19 to upper right	
			line 18; page 4, upper left column,	
			to lower left column, line 1	
	Document 3:		516 A (Kabushiki Kaisha Masuda	
	200amene 3.		ho), 9 July 1992, page 4, upper	
			lumn, lines 1 to 14	
<u>,</u>	⊶Document 4:		095 A (Matsushita Electric Works,	·
	-500amene 1.		5 February 1982, entire text	
	Document 5:		216 A (Fuji Photo Film Co., Ltd.), 8	
			1982, page 2, upper left column,	
		lines 1		
	The ir	vention se	et forth in claims 1 to 3, 7, 11, and	
			an inventive step in the light of	
			ext) cited in the international	
			ent 2 (page 3, upper left column,	
			nt column, line 18 and page 4, upper	
			to lower left column, line 1) cited	
			search report and document 3 (page	

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

4, upper right column, lines 1 to 14) cited in the international search report.

Document 2 discloses a method of manufacturing a non-woven fiber aggregate impregnated with a thermosetting resin for use as a resin roller, wherein the non-woven fiber aggregate is impregnated with a thermosetting resin in liquid state as said aggregate is being conveyed.

Document 3 discloses the use of a fiber material bonded with a binder as a tape-like non-woven fiber aggregate for use as a resin roller.

Meanwhile, each of the inventions disclosed in documents 1 to 3 pertains to a resin roller having a non-woven fiber aggregate, and thus, a person skilled in the art could easily conceive of employing the feature of impregnating a non-woven fiber aggregate with a thermosetting resin in liquid state as said aggregate is being conveyed, disclosed in document 2, and the feature of using a fiber aggregate comprising a fiber material bonded with a binder, disclosed in document 3, in the resin roller manufacturing method disclosed in document 1.

The invention set forth in claims 4 to 6 does not involve an inventive step in the light of documents 1 to 3 and newly cited document 4 (entire text).

Document 4 discloses a feature wherein a paper base material is impregnated with a thermosetting resin, and the viscosity of the thermosetting resin is lowered as the paper base material is being conveyed, thereby promoting saturation of the paper base material with the thermosetting resin.

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Meanwhile, non-woven fiber aggregates according to the inventions disclosed in documents 1 to 3 and the paper base material according to the invention disclosed in document 4 all have the shared features of being formed with no woven fibers and of being impregnated with a thermosetting resin. Therefore, a person skilled in the art could easily conceive of adapting the inventions disclosed in documents 1 to 3 by lowering the viscosity of the thermosetting resin as the non-woven fiber aggregate is being conveyed, thereby promoting saturation of the non-woven fiber aggregate with the thermosetting resin.

Moreover, setting the timing of the lowering of the viscosity of the thermosetting resin to after the non-woven fiber aggregate has been conveyed and when it is being wound onto a roller core is merely a feature fittingly determined at the discretion of a person skilled in the art.

The invention set forth in claims 8 to 10 does not involve an inventive step in the light of documents 1 to 3. Document 2 discloses a feature wherein a non-woven fiber aggregate is manufactured using a fiber material in a wet process, namely, sheet making; a feature wherein the non-woven fiber aggregate must have a tensile strength of at least a specified a value; and a feature wherein the non-woven fiber aggregate has a basis weight range that overlaps with 30 to 100 g/m^2 .

The invention set forth in claim 13 does not involve an inventive step in the light of documents 1 to 3 and document 5 (page 2, upper left column, lines 1 to 8)

International application No.
PCT/JP2004/008447

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
cited	in the international search report. Document 5
disclo	oses the formation of an outer tube over a lower
wound	layer without an adhesive material layer interposed
thereb	Detween.
•	